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- 2015 THOMAS L. MARZETTA "Non-cooperative Cellular Wireless with Unlimited Numbers of Base Station Antennas," *IEEE Transactions on Wireless Communications*, Vol. 9, Issue 11, pp. 3590–3600, November 2010.
- 2014 STEPHEN J. WRIGHT "Sparse Reconstruction by Separable Approximation," *IEEE Transactions on Signal Processing*, Vol. 57, Issue 7, July 2009, pp. 2479–2493.
University of Wisconsin, Madison, Wisconsin, USA
- ROBERT NOWAK
University of Wisconsin, Madison, Wisconsin, USA
- MÁRIO A. T. FIGUEIREDO
Instituto de Telecomunicações,
Instituto Superior Técnico,
Torre Norte, Lisboa, Portugal
- 2013 ERDAL ARIKAN "Channel Polarization: A Method for Constructing Capacity-Achieving Codes for Symmetric Binary-Input Memoryless Channels," *IEEE Transactions on Information Theory*, Vol. 5, Issue 7, July 2009, pp. 3051–3073.
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Ankara, Turkey
- 2012 GERHARD KRIEGER "TanDEM-X: A Satellite Formation for High-Resolution SAR Interferometry", *IEEE Transactions on Geoscience and Remote Sensing*, Vol. 45, Issue 11, Part 1, November 2007, pp. 3317–3341.
ALBERTO MOREIRA
HAUKE FIEDLER
IRENA HAJNSEK
MARIAN WERNER
MARWAN YOUNIC
MANFRED ZINK
- 2002 thru 2011 – NOT AWARDED
- 2001 KESHAB PARHI "Low Energy CSMT Carry Generators and Binary Adders," *IEEE Trans. on Very Large Scale Intergration*, Vol. 7, No. 4, December 1999, pp. 450-462
University of Minnesota
Minneapolis, MN, USA
- 2000 A. LEE SWINDLEHURST "Maximum Likelihood Methods in Radar Array Signal Processing," *Proceedings of IEEE*, Vol. 86, No. 2, February 1998, pp.421-441.
Brigham Young University
Provo, UT
- AND PETRA STOICA
Uppsala University
Uppsala, Sweden
- 1999 - WAYNE D. GROVER "Self Organizing Broadband Transport Networks",

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Telecommunications Research
Laboratory
Edmonton, Alberta, Canada

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1998 - PAUL F. MCMANAMON
TERRY A. DORSCHNER
DAVID L. CORKUM
LARRY J. FRIEDMAN
DOUGLAS S. HOBBS
MICHAEL HOLZ
SERGEY LIBERMAN
HUY Q. NGUYEN
DANIEL P. RESLER
RICHARD C. SHARP
EDWARD A. WATSON

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1997 - RAJIV RAMASWAMI
AND KUMAR N. SIVARAJAN
IBM/T. J. Watson Research Center
Yorktown Heights, NY, USA

"Routing and Wavelength Assignment in
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1996 - WILL E. LELAND
AND WALTER WILLINGER
AND DANIEL V. WILSON
Bellcore, Morristown, NJ, USA
MURAD S. TAQQU
Boston University, Boston, MA, USA

"On the Self-Similar Nature of Ethernet Traffic,"
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1995 - PETROS MARAGOS
Georgia Inst. Of Technology,
Atlanta, GA
AND JAMES F. KAISER
Rutgers University,
Piscataway, NJ, USA

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Application to Speech Analysis," *IEEE
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AND THOMAS F. QUATIERI
MIT, Cambridge, MA, USA

1994 - MICHAEL M. GREEN
State University of New York
Stony Brook, NY, USA

"How to Identify Unstable dc Operating Points,"
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AND ALAN N. WILLSON, JR.

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University of California
Los Angeles, CA

- 1993 - NARASIMHAM VEMPATI "Enhancements to Givens Rotations for Power System State Estimation," *IEEE Transactions on Power Systems*, Vol. 6, No. 2, May 1991, pp. 842-849
- AND ILYA W. SLUTSKER
Empros Systems International
Minneapolis, MN
- AND WILLIAM F. TINNEY
Consultant
Portland, OR, USA
- 1992 - ALON ORLITSKY "Worse-Case Interactive Communication I: Two Messages are Almost Optimal," *IEEE Transactions on Information Theory*, Vol. 36, No. 5, September 1990, pp. 1111-1126
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Murray Hill, NJ, USA
- 1991 - JOHN C. DOYLE "State-Space Solutions to Standard H₂ and H_∞ Control Problems," *IEEE Transactions on Automatic Control*, August 1989
- California Institute of Technology
Pasadena, CA, USA
- AND KEITH CLOVER
Cambridge University
Cambridge, England
- AND BRUCE A. FRANCIS
University of Toronto
Toronto, Ont., Canada
- AND PRAMOD P. KHARGONEKAR
University of Michigan
Ann Arbor, MI, USA
- 1990 - ALLEN C. NEWELL "Error Analysis Technique" for Planar Near-Field Measurements," *IEEE Transactions on Antennas and Propagation*, June 1988
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- University of Maryland
College Park, MD, USA

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Swiss Federal Institute of
Technology
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- AND PETER MATHYS
University of Colorado
Boulder, CO, USA
- 1986 - ADI SHAMIR
Weizmann Institute of Science
Rehovet, Israel
- 1985 - JOHN W. ADAMS
Hughes Aircraft Company
Los Angeles, CA, USA
- AND ALAN N. WILLSON, JR.
University of California,
Los Angeles, CA, USA
- 1984 - YANNIS TSIVIDIS
Columbia University
New York, NY, USA
- 1983 - RYSZARD MALEWSKI
- AND CHINH T. NGUYEN
Hydro Quebec Institute of Research
Varenes, Canada
- AND KURT FESER
Haefely & Co., Ltd., Basel,
Switzerland
- AND NILS HYLTEN-CAVALLIUS
Center Pesquisas Energia Eletrica
Rio De Janeiro, Brazil
- 1982 - CARL O. BOZLER
- AND GARY D. ALLEY
MIT Lincoln Laboratory
Lexington, MA, USA
- "The Collision Channel Without Feedback," *IEEE Transactions on Information Theory*, March 1985
- "A Polynomial-Time Algorithm for Breaking the Basic Merkle-Hellman Cryptosystem," *IEEE Transactions on Information Theory*, September 1984.
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INTEL Corporation
Aloha, OR, USA
"Alpha-Particle-Induced Soft Errors in Dynamic Memories," *IEEE Transactions on Electron Devices*, January 1979
- AND MURRAY H. WOODS
INTEL Corporation
Santa Clara, CA, USA
- 1980 - DAVID J. ALLSTOT
Texas Instruments Inc.,
Dallas, TX, USA
"Design Techniques for MOS Switched Capacitor Ladder Filters," *IEEE Transactions on Circuits and Systems*, December 1978
- AND PAUL R. GRAY
University of California,
Berkeley, CA, USA
- AND GORDON M. JACOBS
Dolby Laboratories, Inc.,
San Francisco, CA, USA
- AND ROBERT W. BRODERSEN
University of California,
Berkeley, CA, USA
- 1979 - STEPHEN W. DIRECTOR
Carnegie-Mellon University
Pittsburgh, PA, USA
GARY D. HACHTEL
University of Denver,
Denver, CO, USA
"The Simplicial Approximation Approach to Design Centering," *IEEE Transactions on Circuits and Systems*, July 1977
- 1978 - JAMES S. KRESGE
"A New Concept in Station Arrester Design," *IEEE Transactions on Power Apparatus and Systems*, March/April 1977
- AND EUGENE C. SAKSHAUG
General Electric Company,
Pittsfield, MA, USA
- AND STANLEY A. MISKE, JR.
General Electric Co.,
Schenectady, NY, USA
- 1977 - MANFRED R. SCHROEDER
Bell Laboratories
Murray Hill, NJ, USA
"Models of Hearing," *Proceedings of the IEEE*, September 1975
- 1976 - ROBERT W. KEYES
IBM
Hopewell Junction, NY, USA
"Physical Limits in Digital Electronics," *Proceedings of the IEEE*, May 1975

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AND ENRIQUE A.J. MARCATILI
AND TINGYE LI
Bell Laboratories
Holmdel, NJ, USA
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- 1974 - DAVID B. LARGE
Conservation Foundation,
Washington, DC, USA
AND LAWRENCE BALL
AND ARNOLD J. FARSTAD
Westinghouse Georesearch
Laboratory, Boulder, CO, USA
"Radio Transmission to and from Underground Coal Mines—Theory and Measurement," *IEEE Transactions on Communications*, March 1973
- 1973 - LEON O. CHUA
University of California
Berkeley, CA, USA
"Memristor-The Missing Circuit Element," *IEEE Transactions on Circuit Theory*, September 1971
- 1972 - DIRK J. KUIZENGA
AND ANTHONY E. SIEGMAN
Stanford University
Stanford, CA, USA
"FM and AM Mode Locking of the Homogeneous Laser-Parts I & II," *IEEE Journal on Quantum Electronics*, November 1970
- 1971 - ANDREW H. BOBECK
ROBERT F. FISCHER
ANTHONY J. PERNESKI
J. P. REMEIKA
L. G. VAN UITERT
Bell Telephone Labs, Inc.,
Murray Hill, NJ, USA
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- 1970 - GEORGE J. FRIEDMAN
Northrop Electro-Mechanical Division
Palos Verdes Peninsula, CA, USA
AND CORNELIUS T. LEONDES
University of California
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March 1968

1968 - JONNY ANDERSEN
AND HARRY B. LEE
MIT, Cambridge, MA, USA

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1967 - DEAN E. MCCUMBER
AND ALAN G. CHYNOWETH
Bell Telephone Labs, Inc.,
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and of Gunn Instabilities in 'Two-Valley'
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1966 - ROBERT G. GALLAGER
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Cambridge, MA, USA

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1965 - DANTE C. YOULA
Polytechnic Institute of Brooklyn
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1964 - DONALD L. WHITE
Bell Telephone Laboratories
Murray Hill, NJ, USA

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